Necati Ozdemir

List of Publications by Year
in descending order

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44 papers	1,403 citations	331670 21 h-index	345221 36 g-index
44 all docs	44 docs citations	44 times ranked	894 citing authors

#	Article	IF	Citations
1	Fractional diffusion-wave problem in cylindrical coordinates. Physics Letters, Section A: General, Atomic and Solid State Physics, 2008, 372, 5968-5972.	2.1	207
2	Mathematical analysis and numerical simulation for a smoking model with Atanganaâ€“Baleanu derivative. Chaos, Solitons and Fractals, 2019, 118, 300-306.	5.1	146
3	Solutions of partial differential equations using the fractional operator involving Mittag-Leffler kernel. European Physical Journal Plus, 2018, 133, 1.	2.6	94
4	European Vanilla Option Pricing Model of Fractional Order without Singular Kernel. Fractal and Fractional, 2018, 2, 3.	3.3	91
5	Fractional optimal control problem of a distributed system in cylindrical coordinates. Physics Letters, Section A: General, Atomic and Solid State Physics, 2009, 373, 221-226.	2.1	84
6	A different approach to the European option pricing model with new fractional operator. Mathematical Modelling of Natural Phenomena, 2018, 13, 12.	2.4	70
7	Numerical inverse Laplace homotopy technique for fractional heat equations. Thermal Science, 2018, 22, 185-194.	1.1	65
8	Fractional order model of immune cells influenced by cancer cells. Mathematical Modelling of Natural Phenomena, 2019, 14, 308.	2.4	61
9	Complex valued neural network with MÃ¶bius activation function. Communications in Nonlinear Science and Numerical Simulation, 2011, 16, 4698-4703.	3.3	60
10	Fractional optimal control of a 2-dimensional distributed system using eigenfunctions. Nonlinear Dynamics, 2009, 55, 251-260.	5.2	41
11	Multistage Adomian Decomposition Method for Solving NLP Problems Over a Nonlinear Fractional Dynamical System. Journal of Computational and Nonlinear Dynamics, 2011, 6, .	1.2	38
12	A fractional model of cancer-immune system with Caputo and Caputoâ€“Fabrizio derivatives. European Physical Journal Plus, 2021, 136, 43.	2.6	35
13	System Analysis of HIV Infection Model with CD4⁺ T under Non-Singular Kernel Derivative. Applied Mathematics and Nonlinear Sciences, 2020, 5, 139-146.	1.6	35
14	Conformable heat equation on a radial symmetric plate. Thermal Science, 2017, 21, 819-826.	1.1	29
15	Dynamical Analysis of Fractional Order Model for Computer Virus Propagation with Kill Signals. International Journal of Nonlinear Sciences and Numerical Simulation, 2020, 21, 239-247.	1.0	27
16	A Fractional SAIDR Model in the Frame of Atanganaâ€“Baleanu Derivative. Fractal and Fractional, 2021, 5, 32.	3.3	27
17	Investigating of an immune system-cancer mathematical model with Mittag-Leffler kernel. AIMS Mathematics, 2020, 5, 1519-1531.	1.6	26
18	Analysis of an axis-symmetric fractional diffusion-wave problem. Journal of Physics A: Mathematical and Theoretical, 2009, 42, 355208.	2.1	23

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19	The Dirichlet problem of a conformable advection-diffusion equation. Thermal Science, 2017, 21, 9-18.	1.1	23
20	A Fractional Order Dynamical Trajectory Approach for Optimization Problem with HPM. , 2012, , 145-155.		22
21	Analysis of an Epidemic Spreading Model with Exponential Decay Law. Mathematical Sciences and Applications E-Notes, 0, , .	0.8	22
22	Integral control by variable sampling based on steady-state data. Automatica, 2003, 39, 135-140.	5.0	21
23	Fractional Order Control of Fractional Diffusion Systems Subject to Input Hysteresis. Journal of Computational and Nonlinear Dynamics, 2010, 5, .	1.2	21
24	Novel analysis of the fractional glucoseâ€“insulin regulatory system with non-singular kernel derivative. European Physical Journal Plus, 2020, 135, 1.	2.6	20
25	The Numerical Solutions of a Two-Dimensional Space-Time Riesz-Caputo Fractional Diffusion Equation. International Journal of Optimization and Control: Theories and Applications, 2011, 1, 17-26.	1.7	17
26	Investigation of E-Cigarette Smoking Model with Mittag-Leffler Kernel. Foundations of Computing and Decision Sciences, 2021, 46, 97-109.	1.2	14
27	Control of thermal stresses in axissymmetric problems of fractional thermoelasticity for an infinite cylindrical domain. Thermal Science, 2017, 21, 19-28.	1.1	13
28	Optimal control of a linear time-invariant spaceâ€“time fractional diffusion process. JVC/Journal of Vibration and Control, 2014, 20, 370-380.	2.6	10
29	Optimal Boundary Control of Thermal Stresses in a Plate Based on Time-Fractional Heat Conduction Equation. Journal of Thermal Stresses, 2014, 37, 969-980.	2.0	10
30	On the Solutions of Fractional Cauchy Problem Featuring Conformable Derivative. ITM Web of Conferences, 2018, 22, 01045.	0.5	10
31	System response of an alcoholism model under the effect of immigration via non-singular kernel derivative. Discrete and Continuous Dynamical Systems - Series S, 2021, 14, 2199.	1.1	9
32	New Numerical Techniques for Solving Fractional Partial Differential Equations in Conformable Sense. Lecture Notes in Electrical Engineering, 2019, , 49-62.	0.4	7
33	Conformable Fractional Wave-Like Equation on a Radial Symmetric Plate. Lecture Notes in Electrical Engineering, 2017, , 137-146.	0.4	6
34	Efficient Solution of Fractional-Order SIR Epidemic Model of Childhood Diseases With Optimal Homotopy Asymptotic Method. IEEE Access, 2022, 10, 9395-9405.	4.2	6
35	Digital Variable Sampling Integral Control of Infinite Dimensional Systems Subject to Input Nonlinearity. IEEE Transactions on Automatic Control, 2009, 54, 1357-1362.	5.7	4
36	A Fractional Mixing Propagation Model of Computer Viruses and Countermeasures Involving Mittag-Leffler Type Kernel. Advances in Intelligent Systems and Computing, 2020, , 186-199.	0.6	4

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37	Description of multi-periodic signals generated by complex systems: NOCFASS - New possibilities of the Fourier analysis. Numerical Algebra, Control and Optimization, 2024, 14, 1-19.	1.6	2
38	Constrained Optimal Control of A Fractionally Damped Elastic Beam. International Journal of Nonlinear Sciences and Numerical Simulation, 2020, 21, 389-395.	1.0	1
39	Solving a well-posed fractional initial value problem by a complex approach. Fixed Point Theory and Algorithms for Sciences and Engineering, 2021, 2021, .	0.6	1
40	Parameter Optimization of Fractional Order PI Î» D Î¼ Controller Using Response Surface Methodology. Advances in Dynamics, Patterns, Cognition, 2014, , 91-105.	0.3	1
41	Time-fractional boundary optimal control of thermal stresses. , 2012, , .		0
42	Tuning of fractional order PI^λD^μ controller with response surface methodology. , 2012, , .		0
43	Numerical Solution of a Two-Dimensional Anomalous Diffusion Problem. , 2012, , 249-261.		0
44	A heat transfer problem with exponential memory and the associated thermal stresses. Numerical Methods for Partial Differential Equations, 0, , .	3.6	0